



PUBLIC NOTICE

File Number: NRS 13.240

Notice Date:
January 16, 2014

Expiration Date:
February 15, 2014

Pursuant to Chapter 1200-4-7 of the Department's rules, the proposed activity described below has been submitted for approval under an Aquatic Resource Alteration Permit (this also includes §401 Water Quality Certifications). This notice is intended to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. No decision has been made whether to issue or deny this application.

APPLICANT: Anthony Myers
Tennessee Department of Transportation
Environmental Division
Suite 900, James K. Polk Building
505 Deaderick Street
Nashville, TN 37243-1402
615-532-9945

LOCATION: State Route 10 (TDOT56001-1218-14 PIN103773.02) from south of Goose Creek to State Route 52 in Lafayette, Macon County.

PROJECT DESCRIPTION / PURPOSE: The applicant proposes to reconstruct, realign and widen 1.731 miles of State Route 10 from south of Goose Creek to State Route 52 near Lafayette in Macon County.

Impact 1: Latitude: 36.4978 Longitude: -86.0495

Unnamed tributary to Goose Creek (STR-2)
Station 104+82.09

Existing 31 ft. of 4X4 box culvert to be extended 12 ft. left and 8 ft. right with 45 ft. of transition at the inlet and 12 ft. of transition at the outlet.

Impact 2: Latitude: 36.4979 Longitude: -86.0496

Unnamed intermittent tributary to Goose Creek (STR-4)
Station 104+81.86(Rt.) to Sta. 106+10.44(Rt.)

Existing 114 ft. of open stream and 30 ft. of 24" CMP to be replaced with 105 ft. of relocated stream channel and 24 ft. of 18" storm drain.

Impact 3: Latitude: 36.5011 Longitude: -86.0497

Unnamed intermittent tributary to Goose Creek (STR-5) including seeps and spring 3
Station 112+03.00 to Sta. 114+40(Rt.)

Existing 56 ft. of open stream would be encapsulated, 115 ft. of open stream would be relocated (an 83 ft. segment would be left undisturbed) the three existing structures: 30 ft. of 3X3 ft. box culvert, 13 ft. of 15"

CPP and 14 ft. of 15" CPP would be replaced with 86 ft. of 3X3 box culvert, 16 ft. of 18" storm drain and 16' of 18" storm respectively.

Impact 4: Latitude: 36.5035 Longitude: -86.0479

Unnamed intermittent tributary to Goose Creek (STR-6)

Station 127+45.21

Existing 33 ft. of 6X3 box culvert and 67 ft. of open stream to be replace with 88 ft. of 6X3 box culvert with 13 ft. of stream transition at the inlet.

Impact 5: Latitude: 36.5043 Longitude: -86.0467

Goose Creek (STR-1)

Station 130+27.05

Existing 65 ft. of 2@10X10 ft. concrete slab bridge and 228 ft. of open stream to be replaced with 260 ft. of 2@ 12X10 ft. concrete slab bridge with 25 ft. of Class C riprap at the outlet and removal of 16' of an existing wooden structure at Station 127+70 (Lt).

Impact 6: Latitude: 36.5078 Longitude: -86.0430

Unnamed intermittent tributary and Spring to Goose Creek (STR-7.1)

Station 146+48 (Rt.) to Sta. 148+39.18(Lt.)

Existing 53 ft. of 24" CMP and 155 ft. of open stream would be replaced with 75 ft. of 2@ 24" RCP with 26' of Class B riprap at the outlet and 218 ft. of relocated stream (55' of the stream would be vertically reshaped into the proposed hillside – TDOT proposes to mitigate the entire reach of 208 ft. due to the high cuts and possible loss of water capture after relocation.

Impact 7: Latitude: 36.5087 Longitude: -86.0415

Unnamed intermittent tributary and spring to Goose Creek (STR-9)

Construction of an endwall at the outlet of a proposed 30" RCP. Transition between endwall and stream would be less than 50 ft.

Impact 8: Latitude: 36.5108 Longitude: -86.0409

Unnamed intermittent tributary to Goose Creek (STR-10)

Station 161+80+/-

Existing 79 ft. of 6X4 box culvert and 123 ft. of existing stream would be replaced with 155 ft. of 6X3 box culvert and 15 ft. of transition at the outlet and 14 ft. at the outlet.

Impact 9: Latitude: 36.5145 Longitude: -86.0395

Unnamed intermittent tributary to Goose Creek (STR-11) and Spring 4

Station 173+54.96 to 176+76(Rt)

Existing 65 ft. of 24" CMP and 305 ft. of open stream to be replaced with 62.5 ft. of 24" RCP (Upstream of proposed retaining wall), 6 ft. of 24" RCP (Downstream of the proposed retaining wall) with 16 ft. of Class C riprap at the outlet and 300 ft. of relocated stream channel. TDOT proposes to mitigate the entire reach of 370 ft. due to the high cuts and possible loss of water capture after relocation.

Impact 10: Latitude: 36.5145 Longitude: -86.0395

Station 176+54 to Sta. 177+00(Lt.)

Unnamed intermittent tributary to Goose Creek (STR-11.1)

Existing 63 ft. of open stream would be relocated into a channel 64 ft. in length. TDOT proposes to mitigate the entire reach of 63ft. due to the high cuts and possible loss of water capture after relocation.

Impact 11: Latitude: 36.5158 Longitude: -86.0385

Unnamed intermittent tributary to Goose Creek (STR-12)

Station 179+32.37 to Sta. 181+63.62

Existing 94 ft. of 24" CMP and 65 ft. of 24" RCP and 177 ft. of open stream to be replaced with 87 ft. of 24" RCP with 16 ft. of U-shaped endwall and 21 ft. of Class C riprap at the outlet and 227 ft. of relocated stream channel.

For the impacts listed above the applicant proposes 220 ft. of onsite replacement. For the 260 ft. of encapsulation, 649 ft. of stream losses, and 89 ft. of canopy loss the applicant proposes payment of \$239,520.00 to the Tennessee In-lieu Fee Stream Mitigation Program.

DEGRADATION: In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activities will result in degradation to water quality.

WATERSHED / WATERBODY DESCRIPTION: This project will impact Goose Creek (051302010102) a large perennial tributary to the Cumberland River in the Old Hickory Lake pool in the Outer Nashville Basin ecoregion. Goose Creek is 15 to 20 feet wide at the base and 30 to 35 feet wide at top of bank with 5 feet high banks. The substrate is bedrock and cobble and has a regular flow depth varying from 1 to 12 inches. The stream is stable and has a moderate canopy of mature ash, sycamore, cotton wood and box elder. The surrounding land use is rural residential.

Stream Name / ID #: Goose Creek (TN05130201028_1000)

Ecoregion: Outer Nashville Basin

Stream Dimension:	Channel bottom width	15-20'
	Chanel top width	30-35'
	Water depth	1-12"
	Bank height	5'

Substrate: Bedrock, Cobble

Designated Use	Use Support
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fish and aquatic life	fully supporting
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recreation	fully supporting
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industrial water supply	fully supporting
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irrigation	fully supporting
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livestock watering & wildlife	fully supporting
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Assessment Date: 2012

PERMIT COORDINATOR: Brian Canada

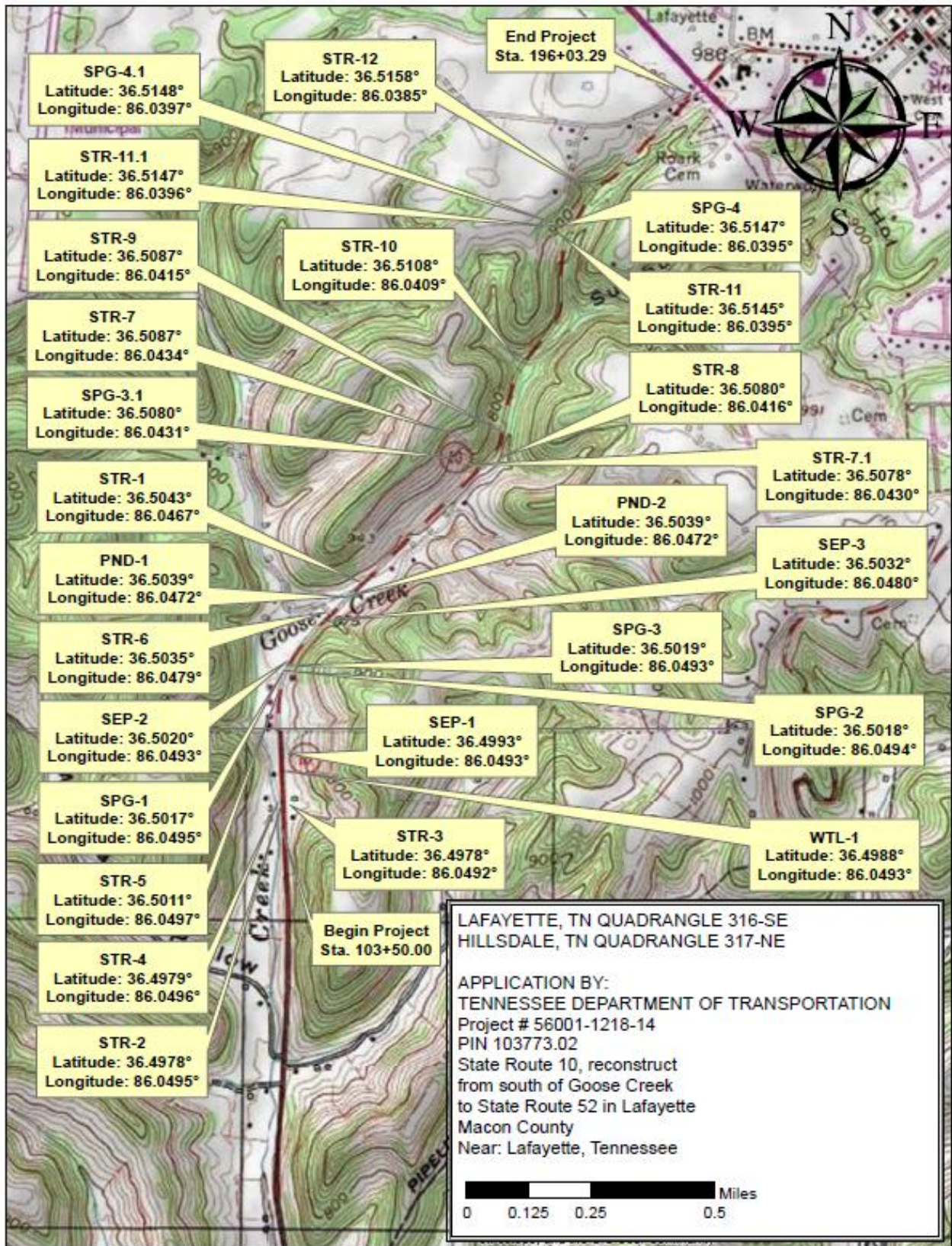
FACTORS CONSIDERED: In deciding whether to issue or deny a permit, the department will consider all comments of record and the requirements of applicable federal and state laws. In making this decision, a determination will be made regarding the lost value of the resource compared to the value of any proposed mitigation. The department shall consider practicable alternatives to the alteration. The department shall also consider loss of waters or habitat, diminishment in biological diversity, cumulative or secondary impacts to the water resource, and adverse impact to unique, high quality, or impaired waters.

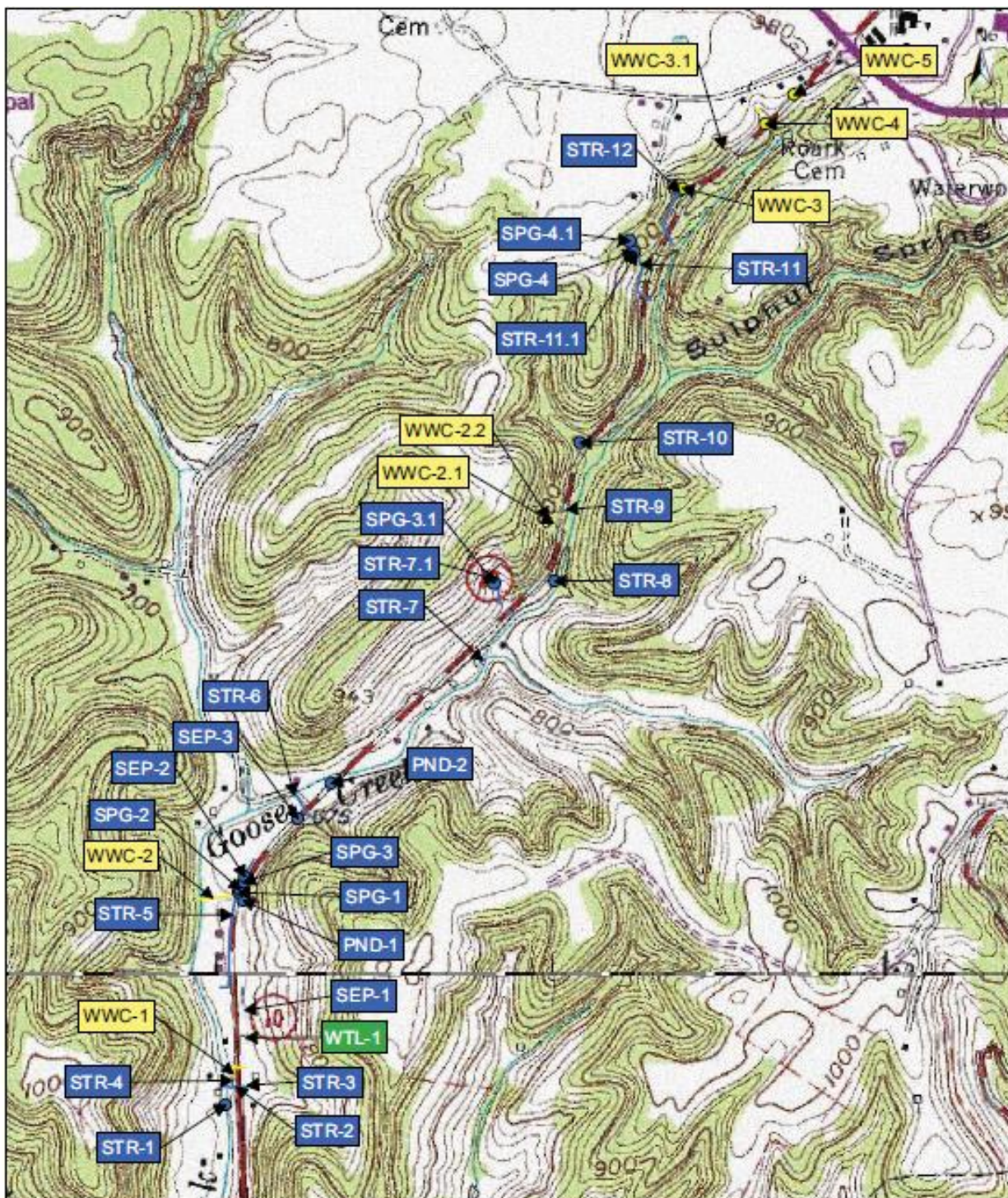
COMMENTING: Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced. Send all written comments to the department's address listed below and to the attention of the permit coordinator.

PUBLIC HEARING: Interested persons may request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing. Send all public hearing request to the department's address listed below and to the attention of the permit coordinator.

FILE REVIEW: The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address (listed below) for review and/or copying.

Tennessee Department of Environment & Conservation
Division of Water Resources, Natural Resources Unit
William R. Snodgrass Tennessee Tower, 11th Floor
312 Rosa L. Parks Ave
Nashville, TN 37243





0 300 600 1200 Feet



ISSUED FOR: TDOT

ISSUED BY: **CEE**
 CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
 400 Lake Drive, Ste 200, Franklin, TN 37067
 Columbia, SC • Cincinnati, OH • Dallas, TX • Denver, CO • Chicago, IL
 St. Louis, MO • Raleigh, NC • San Antonio, TX • Seattle, WA

DESIGNED BY: [Signature]
 CHECKED BY: [Signature]

SCALE: 1/12,000

DATE: 04-08-2011

PROJECT NO.: 102211

FIGURE 1

Form G Map
 SR-10 from S. of Goose Cr.
 to SR-52 in Lafayette
 P.E. 56001-1218-14; Pin 103773.02

Stream	In Kind Stream Replacement	Encapsulation	Length Losses	Total @ 1.0 Ratio	In Lieu Fee @ 1.0 Ratio	Rip rap	Total * 0.75 Ratio	In Lieu Fee @ 0.75 Ratio	Canopy Loss	Total * 0.50 Ratio	In Lieu Fee @ 0.50 Ratio	Total In Lieu Fee
STR-4	105	0	0	0	\$ -	0	0	\$ -	0	0	\$ -	\$ -
STR-5	115	0	0	0	\$ -	0	0	\$ -	0	0	\$ -	\$ -
STR-1	0	260	8	268	\$ 64,320.00	0	0	\$ -	0	0	\$ -	\$ 64,320.00
STR-7.1	0	0	208	208	\$ 49,920.00	0	0	\$ -	0	0	\$ -	\$ 49,920.00
STR-11	0	0	370	370	\$ 88,800.00	0	0	\$ -	0	0	\$ -	\$ 88,800.00
STR-11.1	0	0	63	63	\$ 15,120.00	0	0	\$ -	0	0	\$ -	\$ 15,120.00
STR-12	0	0	0	0	\$ -	0	0	\$ -	177	89	\$ 21,360.00	\$ 21,360.00
Total	220	260	649	909	\$ 218,160.00	0	0	\$ -	177	89	\$ 21,360.00	\$ 239,520.00

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